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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,418	11/11/2003	John Joseph Rabasco	06426 USA	6797
	7590 04/17/2007 TS AND CHEMICALS	EXAMINER		
PATENT DEPARTMENT 7201 HAMILTON BOULEVARD ALLENTOWN, PA 181951501			SALVATORE, LYNDA	
			ART UNIT	PAPER NUMBER
			1771	
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SHORTENED STATUTORY PERIOD OF RESPONSE MAIL DATE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/17/2007·	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Application No.	Applicant(s)				
10/706,418	RABASCO ET AL.				
Examiner	Art Unit				
Lynda M. Salvatore	1771				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
Responsive to communication(s) filed on 22 January 2007.					
This action is FINAL. 2b) ☐ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received:</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Paper No(s)/Mail Da 5) Notice of Informal P	nte				
	Examiner Lynda M. Salvatore  Dears on the cover sheet with a polication to become ABANDONEI go date of this communication, even if timely filed sheet with the cover sheet with t				

Art Unit: 1771

#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's remarks and machine translation of the cited JP document filed 1/22/07 have been fully considered and entered. Applicant's remarks are not found persuasive of patentability for reasons set forth herein below.

## Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-18 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Hoopengardner, US 4,990,399 in view of Kohlhammer et al., US 6,559,259 and further in view of JP 07195637A.

Applicant argues that the published JP document teach that the crystalline ethylene is part of the copolymers containing ethylene and alpha olefins, but does not disclose or suggest ethylene-vinyl acetate copolymers containing crystalline ethylene. This argument is not found persuasive. Upon review of the machine translation provided by Applicant, it is the position of the Examiner that the published JP document teach that the resin composition comprises A) crystalline ethylene alpha olefin and amorphous or low crystalline ethylene alpha olefin and B) crystalline ethylene alpha olefins and ethylene-vinyl acetate copolymer (section 0011). The JP document teaches that resin A and resin B are grafted with an unsaturated carboxylic acid. As such, it is the position of the Examiner that the JP document meets the limitation of providing ethylene-vinyl acetate copolymers containing crystalline ethylene. Presently, Applicant's open claim language of comprising does not preclude a resin composition comprising additional

Art Unit: 1771

constituents. As such, the Examiner asserts that the combination of prior art renders the instant invention obvious.

The patent issued to Hoopengardner teaches a carpet cushion comprising a compressible foam layer coated with a layer of pressure sensitive adhesive (abstract, figure 1 and column 4, 14-37). Hoopenengardner does not teach a specific adhesive composition, however, the patent issued to Kohlhammer et al., teach a water soluble adhesive suitable for textiles, non-wovens and the production of compression moulding compositions and shaped articles (column 9, 58-65). Kohlhammer et al., disclose cross-linkable protective colloids and processes for the polymerization of ethylenicially unsaturated monomers using such protective colloids. The stabilization of polymer dispersion with protective colloids and surfactant is known in the art (Column 1, lines 11-17). The aqueous polymer dispersions are prepared by the process of aqueous emulsion polymerization and can be carried out under increased pressure (Column 6, lines 22-30 and 48-50). With regard to the surfactant limitations, Kohlhammer et al., teach employing nonionic and anionic fatty alcohols (e.g., surfactant) (column 6, 55-60). Polymer dispersions of 50 to 95% by weight of vinyl acetate and 5 to 50% of ethylene and 50-75% by weight of vinyl acetate, 1 to 30% by weight of acrylic acid ester, and 5 to 40% by weight of ethylene are especially preferred (Column 7, lines 62-67 and Column 8, lines 18-21). Kohlhammer et al., teach that the polymer composition exhibits high mechanical strength and high resistance to water and solvents (column 2, 15-25).

Therefore, motivated by the desire to provide a carpet with an adhesive having high mechanical strength and high resistance to water and solvents, it would have been obvious to one

Art Unit: 1771

having ordinary skill in the art at the time the invention was made to coat the carpet taught by Hoopengardner with the adhesive taught by Kohlhammer et al.

Kohlhammer et al., does not specifically teach the claimed crystalline ethylene segments, however, the published JP abstract discloses a resin composition comprising ethylene-vinyl acetate copolymer having crystalline ethylene. Said composition exhibits high heat sealing and gas barrier properties.

Therefore, motivated by the desire to provide a carpet with an adhesive having the combination of high mechanical strength, water/solvent resistance, high heat sealing and gas barrier properties, it would have been obvious to one having ordinary skill in the art at the time the invention was made to formulate the adhesive composition taught by Kohlhammer et al., used to coat the carpet of Hoopengardner with the ethylene-vinyl-acetate resin composition comprised crystalline ethylene as taught in the published JP abstract.

With regard to the crystalline melting point range limitations recited, Kohlhammer et al., and the published JP abstract do not specifically teach the claimed range, however, given that the chemical composition of the ethylene vinyl acetate copolymer and the process of making such a copolymer as taught by Kohlhammer et al., and the published JP abstract are identical to the claimed invention, it is reasonable to presume that the claimed melting point range is inherent to the ethylene-vinyl-acetate composition provided by the combination of Kohlhammer et al., and the published JP abstract. Applicant is invited to evidence otherwise.

Similarly, with regard to the claimed tensile storage modulus and heat of fusion properties, the Examiner submits that the adhesive provided by the combination of Kohlhammer et al., and the published JP abstract would be expected to have the claimed properties. Support

Art Unit: 1771

for said presumption is found in the use of ethylene-vinyl acetate emulsion comprised of crystalline ethylene and in the claimed amounts of each constituent. Applicant is invited to evidence otherwise.

#### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynda M. Salvatore whose telephone number is 571-272-1482. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Page 6

April 11, 2007

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